Assignment 5

Note:

- For every lab assignment report should be submitted via moodle.
- Format of the report: SQL Queries and screenshot of all the tables and Output.

1. Build a basic database(of your choice) and explore the usage of following string function:
   - CHAR_LENGTH()
   - CONCAT()
   - INSERT()
   - LCASE()
   - LENGTH()
   - LIKE
   - TRIM()
   - STRCMP()
   - SUBSTR()

2. Create database with

PATIENT (p_id, r_id, d_id, p_name, city, contact, p_date),

DOCTORS(d_id, name, salary, specification)

ROOM(r_id, room_type), TEST & DIAGNOSIS(p_id, diagno, diag_details).

(Insert new five values for each table. Assume the necessary values related to below mentioned questions.)

(Add 10 entries for each table)

Draw the ER Diagram for the above database.

a) List the patient details with multiple diagnosis records.
b) Add a new attribute p_date (i.e hospital joining date)to the PATIENT table.
c) Fetch the doctors who do not have any patients.
d) Display doctors salary in ascending order
e) Display the each patient details through diagd_details
f) Display the number of patients for each doctor. Only include doctors with more than 3 patients.
g) Display the doctors who are treating patients from r_id 102 to 105.
h) Display the patients details according to their joining dates
i) Count the patients who took deluxe rooms
j) Display name of the doctor with salary less than 40000
k) Display the patients joined before 10.10.2017.

2. Create database for below Schema:

(Add 10 entries for each table)

- BOOK(Book_id, Title, Publisher_Name, Pub_date)
- BOOK_AUTHORS(Book_id, Author_Name)
- PUBLISHER(FName,LName, Address, Phone)
- BOOK_COPIES(Book_id, Programme_id, No-of_Copies)
- BOOK_LENDING(Book_id, Programme_id, Card_No, Date_Out, Due_Date)

a) Retrieve details of all books in the library – id, title, name of publisher.
b) Retrieve the books which have been borrowed from Jan 2017 to March 2017.
c) Delete a book in the BOOK table. Update the contents of other tables to reflect this data manipulation operation.
d) Retrieve the details of the books(id, title, publisher name, year) published on the date 20-03-1998.
e) Retrieve the books published by a particular author.
f) Create a new column ‘name’ in the Publishers table. Combine FName and LName and print it in column name.
g) Write a query to display the first day of the month (in datetime format) two months before the current month from the date of publication of the book “DBMS”.
h) Write a query to get the years in which more than 3 books were published.
i) Print the number of copies of a particular book.